

Commissioner for Patents, P.O. Box 1450, Mail Stop Reissue
Alexandria, VA 22313-1450
Applicant(s): Shen et al
US Patent No: 5,573,648
US Reissue Patent Application No.: TBA
Title: Gas Sensor Based on Protonic Conductive Membranes

Atty. PDM
Docket No.: 011361.00064
Issue Date: 11/12/96
US Reissue Filing Date: 07/17/03

The following has been received in the U.S. Patent and Trademark Office on the date stamped hereon:

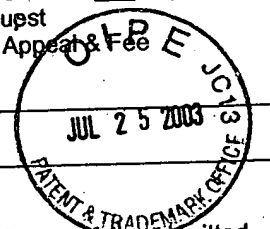
<input type="checkbox"/> Transmittal Letter ___ pages (in duplicate)	<input type="checkbox"/> Amendment/Response ___ pages
<input type="checkbox"/> Specification ___ pages:	<input type="checkbox"/> Petition for Extension (___ months)
<input type="checkbox"/> claims, ___ independent claims, ___ abstract	<input type="checkbox"/> Preliminary Amendment ___ pages
<input type="checkbox"/> Drawings [] formal [] informal ___ sheets	<input type="checkbox"/> Request for Corr. Filing Recpt
<input checked="" type="checkbox"/> IDS 2 pages, PTO-1449 1 page, 17 references	<input type="checkbox"/> Issue Fee (w/ PTOL-85B)
<input type="checkbox"/> Declaration & POA [] signed [] unsigned ___ pages	<input type="checkbox"/> Advance Order of ___ copies
<input type="checkbox"/> Small Entity Statement ___ pages	<input type="checkbox"/> CPA Request
<input checked="" type="checkbox"/> Certificate of Express Mail 1 page	<input type="checkbox"/> Notice of Appeal & Fee

Other _____
Fee Enclosed: _____ Debit Deposit Acct. No. 19-0733 for _____

Exp. Mail Receipt No. EV323344841US

Mailed: RC: _____ Client: Dura (11361)

Respectfully submitted,
BANNER & WITCOFF, LTD.



BEST AVAILABLE COPY

BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 11974 BOSTON, MA

POSTAGE WILL BE PAID BY ADDRESSEE

BANNER & WITCOFF, LTD.
28 STATE STREET, 28TH FLOOR
BOSTON, MA 02109-9733

RECEIVED

AUG 04 2003

BANNER & WITCOFF
BOSTON

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Attorney Docket No. 011361.00064)

Patentee: Shen et al.

Assignee: Atwood Mobile Products, Inc.

U.S. Patent No.: 5,573,648 Date Issued: November 12, 1996

Application No.: 381,718 Date Filed: January 31, 1995

Reissue Application No.: TBA Reissue Filing Date: July 17, 2003

Title: GAS SENSOR BASED ON PROTONIC CONDUCTIVE MEMBRANES

Mail Stop Reissue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF EXPRESS MAIL FOR REISSUE APPLICATION

Dear Sir:

"Express Mail" Label No.: **EV323344841US**

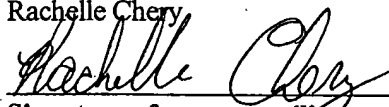
Date of Deposit: 25 July 2003

I hereby state that the following:

- (1) Information Disclosure Statement (2pgs);
- (2) PTO 1449 Form (1pg);
- (3) Copies of 17 citations; and
- (4) Return-Receipt Postcard

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above and is addressed to the Mail Stop Reissue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Rachelle Chery



Signature of person mailing paper or fee

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Attorney Docket No. 011361.00064)**

Patentee: Shen et al.

Assignee: Atwood Mobile Products, Inc.

U.S. Patent No.: 5,573,648 **Date Issued:** November 12, 1996

Application No.: 381,718 **Date Filed:** January 31, 1995

Reissue Application No.: TBA **Reissue Filing Date:** July 17, 2003

Title: GAS SENSOR BASED ON PROTONIC CONDUCTIVE MEMBRANES

Mail Stop Reissue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In accordance with the provisions of 37 C.F.R. § 1.56 and 1.97, applicant herewith submits the publications and/or patents shown on the attached form PTO-1449, for consideration by the Examiner in connection with the examination of the above-identified reissue patent application.

REMARKS

In accordance with the provisions of 37 C.F.R. § 1.97, this statement is being filed
(CHECK ONE):

- X (1) within three (3) months of the **Filing Date** or before the mailing date of the **First Office Action** on the merits; or
- (2) after the period defined in (1) but before the mailing date of a **Final Rejection or Notice of Allowance**, and the requisite Certification or fee under Rule 1.17(p), namely **\$180.00**, is included herein; or

IDS - Page 2

Reissue Application of U.S. 5,573,648

- (3) after the mailing date of a **Final Rejection** or **Notice of Allowance** but before the payment of the **Issue Fee**, and the requisite Certification, petition, and petition fee are included herein.

It is respectfully requested that each of the citations shown on the attached form PTO-1449 be made of record in this application. Copies of each of these citations (CHECK ONE):

X are enclosed herewith except no copy of the cited text in the Liquid Electrolyte Fuel Cells citation is currently available; or

are in the file of related application Serial No. 00/000,000, filed _____, and are thus not being resubmitted herein.

Early examination and allowance of the present application are respectfully solicited.

FEE AUTHORIZATION

The Commissioner is hereby authorized to charge any fee associated with this document to **Deposit Account No. 19-0733**. Any overpayments should be credited to same Deposit Account.

Respectfully submitted,

Christopher R. Pliska (Reg. No. 47,022) for Peter D.
Peter D. McDermott (Reg. No. 29,411) *McDermott*
Attorney for Applicants
Banner & Witcoff, LTD.
28 State St. - 28th Floor
Boston, MA 02109
Phone: 617.720.9600
Fax: 617.720.9601

INFORMATION DISCLOSURE CITATION

Sheet 1 of 1

Applicants: Shen et al.

Issue Date: November 12, 1996

Group:

U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	AA	5,573,648	Nov. 12, 1996	Shen et al.			
	AB	4,664,757	May 12, 1987	Zupancic et al.			
	AC	5,164,053	Nov. 17, 1992	Razaq et al.			
	AD	5,322,602	Jun. 21, 1994	Razaq			
	AE	4,718,991	Jan. 12, 1988	Yamazoe et al.			
	AF	5,650,054	July 22, 1997	Shen et al.			
	AG	4,227,984	Oct. 14, 1980	Dempsey et al.			
	AH	5,266,421	Nov. 30, 1993	Townsend et al.			
	AI	5,474,857	Dec. 12, 1995	Uchida et al.			
	AJ	4,820,386	Apr. 11, 1989	LaConti et al.			
	AK	3,134,697	May 26, 1964	Niedrach			
	AL	5,330,860	Jul. 19, 1994	Grot et al.			
	AM	4,804,592	Feb. 14, 1989	Vanderborgh et al.			
	AN	5,302,274	Apr. 12, 1994	Tomantschger et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
	AO							

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

	AP	"Nafion Distribution in Gas Diffusion Electrodes for Solid-Polymer-Electrolyte-Fuel-Cell Applications"; Z. Poltarzewski, P. Staiti, V. Alderucci, W. Wieczorek, and N. Giordano; J. Electrochem. Soc., Vol. 139, No. 3, March 1992; pgs. 761-765						
	AQ	"Preparation of High-Platinum-Utilization Gas Diffusion Electrodes for Proton-Exchange-Membrane Fuel Cells"; E. J. Taylor, E.B. Anderson, and N.R.K. Vilambi; ElectroChemical Society Letters; Vol. 139, No. 5, May 1992; pgs. L45-L46						
	AR	"Liquid Electrolyte Fuel Cells"; by B.S. Hobbs, A.D.S. Tantram and R. Chan-Henry; Techniques and Mechanisms in Gas Sensing; by P.T. Moseley, J.O.W. Norris and D.E. Williams; Materials and Manufacturing Technology Division, Harwell; Adam Hilger; 1991 pgs. 161-188						
	AS	Skoog, Principles of Instrumental Analysis, 3 rd Edition. P. 665, 1985						

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. **Copies of references not provided at the time of this submission.